



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/510,162

DATE: 10/12/2004
TIME: 12:04:13

Input Set : A:\38509-0016US1.txt
Output Set: N:\CRF4\10122004\J510162.raw

3 <110> APPLICANT: Corena T. McMANUS
4 David A. JONES
6 <120> TITLE OF INVENTION: METHYL-CPG BINDING DOMAIN PROTEIN 2 HOMOLOGS
8 <130> FILE REFERENCE: 38509-0016US1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/510,162
C--> 11 <141> CURRENT FILING DATE: 2004-10-05
13 <150> PRIOR APPLICATION NUMBER: PCT/US03/10631
14 <151> PRIOR FILING DATE: 2003-04-07
16 <150> PRIOR APPLICATION NUMBER: 60/369,851
17 <151> PRIOR FILING DATE: 2002-04-05
19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 812
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
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30 tcacaccttt tccgagccca cctgttctgg ggaagctcaa aagaaacatg atgcctggg 120
31 ctttacagaa gaaacgagaa atccacatgg ccaaggccca tcggagacga gctgcgaggt 180
32 ctgctctccc catgagactc accagctgca tcttccggag gccggtgaca agatcaggt 240
33 ctcatcctga caaccaggc agacgcagaa aaggggacga gcacctggag aagccgcagc 300
34 aactctgcgc ctaccggaga ctgcaggccc tgcagccctg cagcagccaa ggagaagggt 360
35 caagtccact gcattttggag aegtcttaa gtatcctgc accggggacg gccaatgtaa 420
36 ctctggacag ggctggtgct gagcgtgtgc gcagcccgct tgagcccacc cctggcggt 480
37 ttccagctgt ggcagggggg ccaaccccaag gaatgggttg tcaagctccca ccgcctct 540
38 ctggccaatt ggtgactcct gcagatatcc ggagacaggc caggagggtg aagaaagcca 600
39 gggagagact ggcacaggcc ttgcaggcag acaggctggc caggcaggca gaaatgctga 660
40 catgttagatg aagcgcagtc ctggcttcc ggtcccttc tttaatgcc catcctcatt 720
41 cctactctga attgtcacac ttcccttc cccaccgtt tttaataaa agtatttgaa 780
42 aggcaaaaaa aaaaaaaaaa aaaaaaaagat tt 812
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 208
47 <212> TYPE: PRT
48 <213> ORGANISM: Homo sapiens
50 <400> SEQUENCE: 2
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52 1 5 10 15
54 Lys Leu Lys Arg Asn Met Met Pro Trp Ala Leu Gln Lys Lys Arg Glu
55 20 25 30
57 Ile His Met Ala Lys Ala His Arg Arg Arg Ala Ala Arg Ser Ala Leu
58 35 40 45
60 Pro Met Arg Leu Thr Ser Cys Ile Phe Arg Arg Pro Val Thr Arg Ile

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61 50 55 60
63 Arg Ser His Pro Asp Asn Gln Val Arg Arg Arg Lys Gly Asp Glu His
64 65 70 75 80
66 Leu Glu Lys Pro Gln Gln Leu Cys Ala Tyr Arg Arg Leu Gln Ala Leu
67 85 90 95
69 Gln Pro Cys Ser Ser Gln Gly Glu Gly Ser Ser Pro Leu His Leu Glu
70 100 105 110
72 Ser Val Leu Ser Ile Leu Ala Pro Gly Thr Ala Ser Glu Ser Leu Asp
73 115 120 125
75 Arg Ala Gly Ala Glu Arg Val Arg Ser Pro Leu Glu Pro Thr Pro Gly
76 130 135 140
78 Arg Phe Pro Ala Val Ala Gly Gly Pro Thr Pro Gly Met Gly Cys Gln
79 145 150 155 160
81 Leu Pro Pro Leu Ser Gly Gln Leu Val Thr Pro Ala Asp Ile Arg
82 165 170 175
84 Arg Gln Ala Arg Arg Val Lys Lys Ala Arg Glu Arg Leu Ala Lys Ala
85 180 185 190
87 Leu Gln Ala Asp Arg Leu Ala Arg Gln Ala Glu Met Leu Thr Cys Arg
88 195 200 205

91 <210> SEQ ID NO: 3

92 <211> LENGTH: 790

93 <212> TYPE: DNA

94 <213> ORGANISM: Homo sapiens

96 <400> SEQUENCE: 3

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99 agttcacaga ggaagcaacg tgactgtgta aaccaatgca aatcaaagcc tggcttgagc 180
100 acctcaatcc ctttgagaat gtccagttac acattcaaga ggccagtaac gagaattaca 240
101 ccccatcctg gcaatgaggt cagataccat caatggagg agagcttggaa gaagcctcag 300
102 caggtctgct ggcagaggag actgcagggaa ctccaggctt acagcagtgc aggagaactt 360
103 tcaaggactt tggatcttgc caataccctt caaaaacttg tccctagttt cacaggtggaa 420
104 tctctgtgg aggatcttgc cagtggtctg gagcactcct gccccatgcc ccaccttgcc 480
105 tgctcttcag atgcgggtggaa gataattctt gcagaggagg tgggtatctc gcagctcctc 540
106 tgcaaacaat ttctggtcac tgaggaagat atcaggaaac aggaagggaa agtgaagaca 600
107 gtcagagaga gactcgcaat agcactgatt gcgatggac tcgctaatga ggcagagaaaa 660
108 gtgagagacc aagaaggctg tcctgaaaaaa cgctaagaaa aaaagggaaat atagtgcaga 720
109 tggaaataaaat tgtaatcctt tattaacatc tcaaaaaaaaaaaa aaaaaaaaaaaa 780
110 aaaaaaaaaaaa 790

113 <210> SEQ ID NO: 4

114 <211> LENGTH: 194

115 <212> TYPE: PRT

116 <213> ORGANISM: Homo sapiens

118 <400> SEQUENCE: 4

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120 1 5 10 15
122 Lys Ser Lys Pro Gly Leu Ser Thr Ser Ile Pro Leu Arg Met Ser Ser
123 20 25 30
125 Tyr Thr Phe Lys Arg Pro Val Thr Arg Ile Thr Pro His Pro Gly Asn
126 35 40 45

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128 Glu Val Arg Tyr His Gln Trp Glu Glu Ser Leu Glu Lys Pro Gln Gln
129 50 55 60
131 Val Cys Trp Gln Arg Arg Leu Gln Gly Leu Gln Ala Tyr Ser Ser Ala
132 65 70 75 80
134 Gly Glu Leu Ser Ser Thr Leu Asp Leu Ala Asn Thr Leu Gln Lys Leu
135 85 90 95
137 Val Pro Ser Tyr Thr Gly Gly Ser Leu Leu Glu Asp Leu Ala Ser Gly
138 100 105 110
140 Leu Glu His Ser Cys Pro Met Pro His Leu Ala Cys Ser Ser Asp Ala
141 115 120 125
143 Val Glu Ile Ile Pro Ala Glu Gly Val Gly Ile Ser Gln Leu Leu Cys
144 130 135 140
146 Lys Gln Phe Leu Val Thr Glu Glu Asp Ile Arg Lys Gln Glu Gly Lys
147 145 150 155 160
149 Val Lys Thr Val Arg Glu Arg Leu Ala Ile Ala Leu Ile Ala Asp Gly
150 165 170 175
152 Leu Ala Asn Glu Ala Glu Lys Val Arg Asp Gln Glu Gly Cys Pro Glu
153 180 185 190
155 Lys Arg
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 262
160 <212> TYPE: PRT
161 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 5
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165 1 5 10 15
167 Arg Lys Ser Gly Leu Ser Ala Gly Lys Ser Asp Val Tyr Tyr Phe Ser
168 20 25 30
170 Pro Ser Gly Lys Lys Phe Arg Ser Lys Pro Gln Leu Ala Arg Tyr Leu
171 35 40 45
173 Gly Asn Thr Val Asp Leu Ser Ser Phe Asp Phe Arg Thr Gly Lys Met
174 50 55 60
176 Met Pro Ser Lys Leu Gln Lys Asn Lys Gln Arg Leu Arg Asn Asp Pro
177 65 70 75 80
179 Leu Asn Gln Asn Lys Gly Lys Pro Asp Leu Asn Thr Thr Leu Pro Ile
180 85 90 95
182 Arg Gln Thr Ala Ser Ile Phe Lys Gln Pro Val Thr Lys Val Thr Asn
183 100 105 110
185 His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln Arg Met Asn Glu Gln
186 115 120 125
188 Pro Arg Gln Leu Phe Trp Glu Lys Arg Leu Gln Gly Leu Ser Ala Ser
189 130 135 140
191 Asp Val Thr Glu Gln Ile Ile Lys Thr Met Glu Leu Pro Lys Gly Leu
192 145 150 155 160
194 Gln Gly Val Gly Pro Gly Ser Asn Asp Glu Thr Leu Leu Ser Ala Val
195 165 170 175
197 Ala Ser Ala Leu His Thr Ser Ser Ala Pro Ile Thr Gly Gln Val Ser
198 180 185 190
200 Ala Ala Val Glu Lys Asn Pro Ala Val Trp Leu Asn Thr Ser Gln Pro

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201 195 200 205
 203 Leu Cys Lys Ala Phe Ile Val Thr Asp Glu Asp Ile Arg Lys Gln Glu
 204 210 215 220
 206 Glu Arg Val Gln Gln Val Arg Lys Lys Leu Glu Ala Leu Met Ala
 207 225 230 235 240
 209 Asp Ile Leu Ser Arg Ala Ala Asp Thr Glu Glu Met Asp Ile Glu Met
 210 245 250 255
 212 Asp Ser Gly Asp Glu Ala
 213 260
 216 <210> SEQ ID NO: 6
 217 <211> LENGTH: 291
 218 <212> TYPE: PRT
 219 <213> ORGANISM: Homo sapiens
 221 <400> SEQUENCE: 6
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 223 1 5 10 15
 225 Arg Glu Glu Val Pro Arg Arg Ser Gly Leu Ser Ala Gly His Arg Asp
 226 20 25 30
 228 Val Phe Tyr Tyr Ser Pro Ser Gly Lys Lys Phe Arg Ser Lys Pro Gln
 229 35 40 45
 231 Leu Ala Arg Tyr Leu Gly Gly Ser Met Asp Leu Ser Thr Phe Asp Phe
 232 50 55 60
 234 Arg Thr Gly Lys Met Leu Met Ser Lys Met Asn Lys Ser Arg Gln Arg
 235 65 70 75 80
 237 Val Arg Tyr Asp Ser Ser Asn Gln Val Lys Gly Lys Pro Asp Leu Asn
 238 85 90 95
 240 Thr Ala Leu Pro Val Arg Gln Thr Ala Ser Ile Phe Lys Gln Pro Val
 241 100 105 110
 243 Thr Lys Ile Thr Asn His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln
 244 115 120 125
 246 Lys Ala Val Asp Gln Pro Arg Gln Leu Phe Trp Glu Lys Lys Leu Ser
 247 130 135 140
 249 Gly Leu Asn Ala Phe Asp Ile Ala Glu Glu Leu Val Lys Thr Met Asp
 250 145 150 155 160
 252 Leu Pro Lys Gly Leu Gln Gly Val Gly Pro Gly Cys Thr Asp Glu Thr
 253 165 170 175
 255 Leu Leu Ser Ala Ile Ala Ser Ala Leu His Thr Ser Thr Met Pro Ile
 256 180 185 190
 258 Thr Gly Gln Leu Ser Ala Ala Val Glu Lys Asn Pro Gly Val Trp Leu
 259 195 200 205
 261 Asn Thr Thr Gln Pro Leu Cys Lys Ala Phe Met Val Thr Asp Glu Asp
 262 210 215 220
 264 Ile Arg Lys Gln Glu Glu Leu Val Gln Gln Val Arg Lys Arg Leu Glu
 265 225 230 235 240
 267 Glu Ala Leu Met Ala Asp Met Leu Ala His Val Glu Glu Leu Ala Arg
 268 245 250 255
 270 Asp Gly Glu Ala Pro Leu Asp Lys Ala Cys Ala Glu Asp Asp Asp Glu
 271 260 265 270
 273 Glu Asp Glu Glu Glu Glu Pro Asp Pro Asp Pro Glu Met

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274 275

280

285

276 Glu His Val

277 290

VERIFICATION SUMMARY
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L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date